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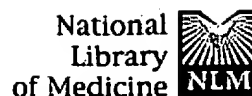
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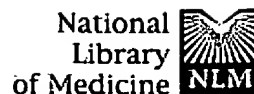
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## Mucin output in ileal digesta of pigs fed a protein-free diet.

Lien KA, Sauer WC, Fenton M.

Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, Canada.

Daily outputs of mucin in ileal digesta were estimated in three barrows fed a protein-free diet while administered either saline (SAI) or a complete amino acid mixture (AAI) intravenously. The water soluble-ethanol precipitable fraction of ileal digesta (crude mucin; CM) was used to estimate the composition of mucin in ileal digesta. This fraction exhibited a carbohydrate composition characteristic of mucin and had a high threonine, serine and proline content (40 mol/100 mol). The proportions of soluble gastric and intestinal mucins, approximately 27 and 73%, respectively, were estimated from the N-acetylglucosamine (GlcNAc)/N-acetylgalactosamine (GalNAc) ratio in CM. The daily outputs of soluble mucin, 2.75 and 3.41 g/day from SAI and AAI pigs ( $p = 0.13$ ), respectively, were determined from the GalNAc outputs in CM, assuming the above contributions of gastric and intestinal mucins. The estimated soluble mucin outputs accounted for more than 99% of the fucose, galactose, GalNAc and GlcNAc in CM. Total mucin outputs in ileal digesta, 5.32 and 5.65 g/day from SAI and AAI Pigs ( $p = 0.24$ ), respectively, were determined from the total GalNAc output in digesta, assuming soluble and insoluble mucin had similar compositions. Based on these outputs, mucin represented approximately 30, 7 to 22, 15 and 11% of the endogenous threonine, proline, serine and protein, respectively, in ileal digesta. Approximately 74, 76, 100 and 53% of the fucose, galactose GalNAc and GlcNAc, respectively, in ileal digesta from pigs in this study was attributed to mucin. The results from this study demonstrate the importance of mucin as a source of some endogenous amino acids and carbohydrates.

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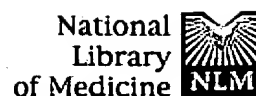
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## Calf intestinal mucin: isolation, partial characterization, and measurement in ileal digesta with an enzyme-linked immunosorbent assay.

Montagne L, Toullec R, Lalles JP.

Unite Mixte de Recherche sur le Veau et le Porc, Institut National de la Recherche Agronomique, Rennes, France.

The aim of this study was to develop a specific ELISA for calf intestinal mucin to quantify its contribution to ileal endogenous losses. Mucin was isolated from intestinal scrapings by cesium chloride density gradient ultracentrifugation. The isolated mucin had a high concentration of glutamic and aspartic acids, threonine, and serine (13.2, 11.2, 9.6, and 9.2 mol % of total amino acids assayed, respectively). The carbohydrates present were (mol % of total hexoses): galactose 42.1, N-acetylglucosamine 24.1, N-acetylgalactosamine 23.6, fucose 4.7, mannose 3.1, and sialic acids 2.4. Amino acids and carbohydrates represented 52.6 and 47.4% of the mucin by weight, respectively. A rabbit hyperimmune plasma was raised against purified mucin and used to set up an ELISA. The linear range of this assay was 20 to 640 ng/ml. The plasma cross-reacted with calf abomasal and colonic mucin. It showed no cross-reactivity with nonmucin components and no reactivity with intestinal mucin from other animal species except for the rat. Mucin accounted for approximately 3.5% of the dry matter output at the ileum of calves fed a substitute milk based on skim milk powder. This represented a flow of 3.4 g of mucin/kg of dry matter intake. Mucin flow increased when dietary protein was provided by cow's colostrum. Finally, the developed assay is a suitable tool to investigate the impact of dietary factors on the flow of mucin along the gut of preruminant calves.

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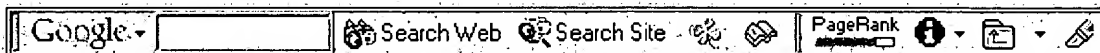
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... Our large population of patients with retroviral **disease** defines this as another of our unique opportunities, and we are currently recruiting a retrovirologist ...

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... found that i) the expression of simple **mucin**-type carbohy ... occurrence of MTOs and Hirschsprung's **disease** in some ... of surgical specimens and the **patient's** age at ...

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... anti-MUC6 anti-peptide antibody reactive with native and deglycosylated **mucin**. ... the histological pattern but not with the **patient** age or **disease** outcome (253 ...

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... This heterogeneity also exists for tumors of the same tissue type arising in different patients or even in the same **patient** at different stages of the **disease**. ...

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... cells to other organs is a deadly event in the progression of the **disease**. ... we can expect to make rapid and substantial contributions to **patient** well being. ...

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... 28 Induction of Autologous Lymphoma-Specific CD8 + Cells by **Patient**-Specific Vaccination ... proline (P), glutamic acid (E), serine (S), and **threonine** (T). We are ...

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... type 1 Nef protein by serine/threonine protein kinase ... type 1-infected patients with  
no disease progression display ... V3 loop sequence from a Ugandan AIDS patient. ...

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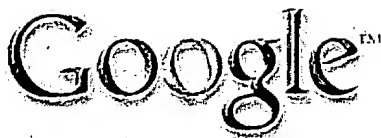
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### Properties of Whey Components~

... c) **Casein glycomacropeptide**. ... The whey proteins most strongly supported for multiple biological functionality's are lactoferrin and the **casein glycomacropeptide**. ...

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... pH-Dependent molecular weight changes of **-casein glycomacropeptide** and its preparation by ultrafiltration. *Milchwissenschaft* 48:191-195. ...

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### Davisco Foods International, Inc. - Whey Protein Products

... CMP is the abbreviation for caseinmacropeptide, while CGMP is used as a more descriptive designation of **casein-glycomacropeptide**. ...

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### GEN USA

... USA; 94(26): 14930-14935, 1997. (2). Stan EY and Groisman S D.; Effect of **k-casein glycomacropeptide** on gastrointestinal mobility in dogs. *Bull Exp Biol Med*. ...

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### GEN USA

... 76:1876 (1993). (4). Kawasaki, H et al. Inhibition by **k-casein glycomacropeptide** and lactoferrin of influenza virus hemagglutination. *Biosic Biotech Biochem*. ...

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### 36-3 Whey products as functional foods

... for alpha-lactalbumin, lactoferrin, bovine serum albumin, conjugated linoleic acid, sphingolipids, butyric acid, calcium, **casein glycomacropeptide** and fat ...

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... **Glycomacropeptide** (GMP), perhaps the most notable, is produced by the action of the enzyme, chymosin, on k-casein (7,8). Beneficial biological roles attributed ...

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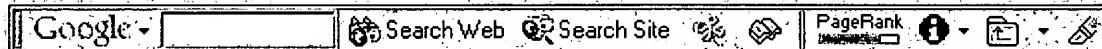
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